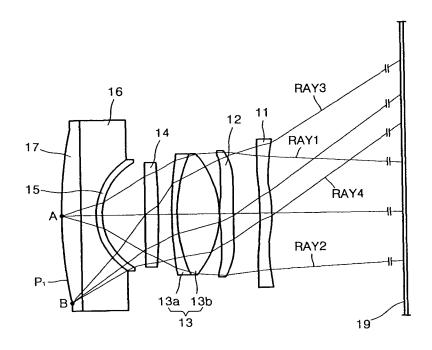
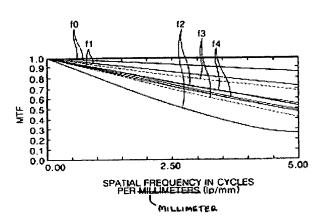
Seok-il YOON, et al. Q75668
HYBRID LENS AND PROJECTION OPTICAL
SYSTEM INCLUDING THE SAME
Filing Date: September 17, 2003
Darryl Mexic 202-293-7060
1 of 9

## FIG. 1 (PRIOR ART)



Seok-il YOON, et al. Q75668
HYBRID LENS AND PROJECTION OPTICAL
SYSTEM INCLUDING THE SAME
Filing Date: September 17, 2003
Darryl Mexic 202-293-7060
2 of 9

## FIG. 2 (PRIOR ART)



Seok-il YOON, et al. Q75668
HYBRID LENS AND PROJECTION OPTICAL
SYSTEM INCLUDING THE SAME
Filing Date: September 17, 2003
Darryl Mexic 202-293-7060
3 of 9

FIG. 3A (PRIOR ART)

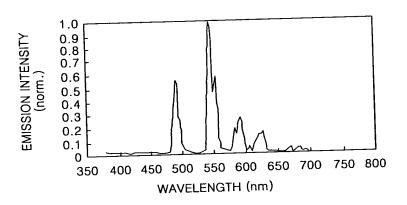
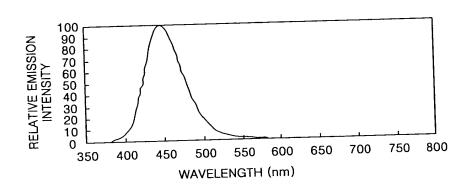
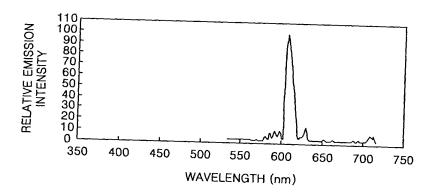


FIG. 3B (PRIOR ART)



Seok-il YOON, et al. Q75668
HYBRID LENS AND PROJECTION OPTICAL
SYSTEM INCLUDING THE SAME
Filing Date: September 17, 2003
Darryl Mexic 202-293-7060
4 of 9

## FIG. 3C (PRIOR ART)



Seok-il YOON, et al. Q75668
HYBRID LENS AND PROJECTION OPTICAL
SYSTEM INCLUDING THE SAME
Filing Date: September 17, 2003
Darryl Mexic 202-293-7060
5 of 9

FIG. 4A

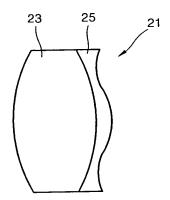
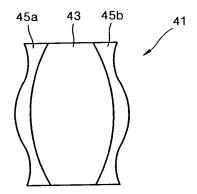
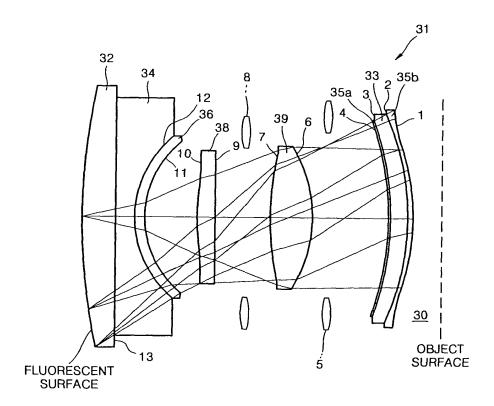


FIG. 4B



Seok-il YOON, et al. Q75668
HYBRID LENS AND PROJECTION OPTICAL
SYSTEM INCLUDING THE SAME
Filing Date: September 17, 2003
Darryl Mexic 202-293-7060
6 of 9

FIG. 5



Seok-il YOON, et al. Q75668
HYBRID LENS AND PROJECTION OPTICAL
SYSTEM INCLUDING THE SAME
Filing Date: September 17, 2003
Darryl Mexic 202-293-7060
7 of 9

FIG. 6

No.	RADIUS	THICKNESS (DISTANCE)	REFRACTIVE INDEX	NUMERICAL APERTURE
OBJECT SURFACE		922.975	Air	1397.09
1*	60.05069	1.5	1.493805	83.89
2	90.00000	7.5	1.489147	81.17
3	90.00000	1.5	1.493805	75.47
4*	66.90956	16.4322	Air	74.80
5	∞	7	Air	66.00
6	61.9601	20	1.609731	68.27
7	-189.2238	7	Air	65.51
8	∞	14.1303	Air	56
9*	-362.7472	7.3	1.493805	60.71
10*	-78.2302	21	Air	63.37
11*	-35.7100	4	1.493805	68.21
12	-44.0000	9	1.439243	72.69
13	8	14.1	1.565745	106.93
FLUORESCENT SURFACE	-350			116.92

Seok-il YOON, et al. Q75668
HYBRID LENS AND PROJECTION OPTICAL
SYSTEM INCLUDING THE SAME
Filing Date: September 17, 2003
Darryl Mexic 202-293-7060
8 of 9

FIG. 7

No.	2rd	3rd	4th	5th	6th	7th
·	-1.8316301E-6	-3.5473076E-10	1 -1.8316301E-6 -3.5473076E-10 -9.2394093E-13 6.8707316E-16 -1.3408518E-19 4.10742332E-25	6.8707316E-16	-1.3408518E-19	4.10742332E-25
<b>,</b> 4	-1.3409016E-6	-2.4937633E-10	4 -1.3409016E-6 -2.4937633E-10 -9.5364364E-13 9.945294E-16 -2.5812749E-19 1.3156724E-23	9.945294E-16	-2.5812749E-19	1.3156724E-23
<b>.</b> 00	-2.9172356E-6	-4.2911832E-9	9 -2.9172356E-6 -4.2911832E-9 1.1246133E-11 -2.2945273E-14 2.6691291E-17 -1.1233961E-20	-2.2945273E-14	2.6691291E-17	-1.1233961E-20
10,	6.526353E-7	-1.1484778E-8	10* 6.526353E-7 -1.1484778E-8 3.1028913E-11 -4.8636258E-14 4.3125163E-17 -1.5063977E-20	-4.8636258E-14	4.3125163E-17	-1.5063977E-20
11:	-7.4071162E-7	1.626278E-8	117.4071162E-7 1.626278E-8 -3.9016282E-11 5.3997755E-11 -3.7150354E-17 1.0494621E-20	5.3997755E-11	-3.7150354E-17	1.0494621E-20

Seok-il YOON, et al. Q75668
HYBRID LENS AND PROJECTION OPTICAL
SYSTEM INCLUDING THE SAME
Filing Date: September 17, 2003
Darryl Mexic 202-293-7060
9 of 9

FIG. 8

